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L1	1361	conver\$6 with text with number	US-PGPUB; USPAT	OR	ON	2006/08/16 13:46
L2	2764	map\$4 with number with code	US-PGPUB; USPAT	OR	ON	2006/08/16 13:47
L3	40	1 and 2	US-PGPUB; USPAT	OR	ON	2006/08/16 13:47
L4	32	3 and (number with format\$4)	US-PGPUB; USPAT	OR	ON	2006/08/16 13:47
L5	105252	(number with format\$4)	US-PGPUB; USPAT	OR	ON	2006/08/16 13:47
L6	438	1 and 5	US-PGPUB; USPAT	OR	ON	2006/08/16 13:48
L8	406	6 not 4	US-PGPUB; USPAT	OR	ON	2006/08/16 13:48
L9	328	8 and code	US-PGPUB; USPAT	OR	ON	2006/08/16 13:48
L10	156	9 and map\$4	US-PGPUB; USPAT	OR	ON	2006/08/16 13:49
L11	2169	conver\$6 with picture with number	US-PGPUB; USPAT	OR	ON	2006/08/16 13:49
L12	12612	conver\$6 with (image or picture) with number	US-PGPUB; USPAT	OR	ON	2006/08/16 13:49
L13	55	2 and 12	US-PGPUB; USPAT	OR	ON	2006/08/16 13:49
S64	2783	(715/513).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/08 11:53
S65	705	(715/531).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/08 11:53
S66	436	(715/523).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/08 11:53
S67	1178	(715/530).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/09 10:00

	Document ID	Issue Date	Title	Current OR
1	US 20060153173 A1	20060713	Method for routing transactions between internal and external partners in a communication center	370/352
2	US 20060143559 A1	20060629	Method and apparatus for annotating a line-based document	715/512
3	US 20060028337 A1	20060209	Voice-operated remote control for TV and electronic systems	340/539.1
4	US 20050147090 A1	20050707	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	370/352
5	US 20050071756 A1	20050331	XML to numeric conversion method, system, article of manufacture, and computer program product	715/513
6	US 20040169675 A1	20040902	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	715/705
7	US 20030179729 A1	20030925	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	370/328
8	US 20030134648 A1	20030717	Machine for providing a dynamic data base of geographic location information for a plurality of wireless devices and process for making same	455/456.1

	Document ID	Issue Date	Title	Current OR
9	US 20020095462 A1	20020718	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	709/204
10	US 20020091726 A1	20020711	STORED-MEDIA INTERFACE ENGINE PROVIDING AN ABSTRACT RECORD OF STORED MULTIMEDIA FILES WITHIN A MULTIMEDIA COMMUNICATION CENTER	715/501.1
11	US 20020065828 A1	20020530	Network communication using telephone number URI/URL identification handle	707/100
12	US 20020055853 A1	20020509	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	705/1
13	US 20010044676 A1	20011122	INTERFACE ENGINE FOR MANAGING BUSINESS PROCESSES WITHIN A MULTIMEDIA COMMUNICATION-CENTER	701/1
14	US 20010025309 A1	20010927	METHOD AND APPARATUS FOR PROVIDING MEDIA-INDEPENDENT SELF-HELP MODULES WITHIN A MULTIMEDIA COMMUNICATION-CENTER CUSTOMER INTERFACE	709/223
15	US 20010013041 A1	20010809	METHOD AND APPARATUS FOR BUILDING MULTIMEDIA APPLICATIONS USING INTERACTIVE MULTIMEDIA VIEWERS	715/500
16	US 20010011366 A1	20010802	Interface engine for managing business processes within a multimedia communication-center	717/100

	Document ID	Issue Date	Title	Current OR
17	US 7039857 B2	20060502	Method and apparatus for building multimedia applications using interactive multimedia viewers	715/500.1
18	US 6910072 B2	20050621	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	709/224
19	US 6874119 B2	20050329	Stored-media interface engine providing an abstract record of stored multimedia files within a multimedia communication center	715/500.1
20	US 6718366 B2	20040406	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	709/204
21	US 6539419 B2	20030325	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	709/204
22	US 6381640 B1	20020430	Method and apparatus for automated personalization and presentation of workload assignments to agents within a multimedia communication center	709/223
23	US 6370508 B2	20020409	Interface engine for managing business processes within a multimedia communication-center	705/1

	Document ID	Issue Date	Title	Current OR
24	US 6345305 B1	20020205	Operating system having external media layer, workflow layer, internal media layer, and knowledge base for routing media events between transactions	709/242
25	US 6332154 B1	20011218	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	709/204
26	US 6230197 B1	20010508	Method and apparatus for rules-based storage and retrieval of multimedia interactions within a communication center	709/223
27	US 6212178 B1	20010403	Method and apparatus for selectively presenting media-options to clients of a multimedia call center	370/352
28	US 6170011 B1	20010102	Method and apparatus for determining and initiating interaction directionality within a multimedia communication center	709/224
29	US 6167395 A	20001226	Method and apparatus for creating specialized multimedia threads in a multimedia communication center	707/3
30	US 6138139 A	20001024	Method and apparatus for supporting diverse interaction paths within a multimedia communication center	709/202
31	US 6108711 A	20000822	Operating system having external media layer, workflow layer, internal media layer, and knowledge base for routing media events between transactions	709/242

	Document ID	Issue Date	Title	Current OR
32	US 5657259 A	19970812	Number formatting framework	708/204

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Best 200 shown

Relevance scale **1 The elements of nature: interactive and realistic techniques**

 Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM PressFull text available:  [pdf\(17.65 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

2 Fortran 8X draft

 Loren P. Meissner
 December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM PressFull text available:  [pdf\(21.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM PressFull text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex

and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(63.03 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

5 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

6 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

7 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes.

Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

8

Object and native code thread mobility among heterogeneous computers (includes

 sources)

B. Steensgaard, E. Jul
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29
Issue 5

Publisher: ACM Press

Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



9 Structure and transformation of documents: Mapping and displaying structural transformations between XML and PDF

 Matthew R. B. Hardy, David F. Brailsford
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available:  pdf(439.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Documents are often marked up in XML-based tagsets to delineate major structural components such as headings, paragraphs, figure captions and so on, without much regard to their eventual displayed appearance. And yet these same abstract documents, after many transformations and 'typesetting' processes, often emerge in the popular format of Adobe PDF, either for dissemination or archiving. Until recently PDF has been a totally display-based document representation, relying on the underlying PostSc ...

Keywords: PDF, XML, document structure transformation



10 Graphics Programming Using the Core System

 R. Daniel Bergeron, Peter R. Bono, James D. Foley
December 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.92 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



11 Special issue: AI in engineering

 D. Sriram, R. Joobhani
April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.



12 Supporting the restructuring of data abstractions through manipulation of a program visualization

 Robert W. Bowdidge, William G. Griswold
April 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With a meaning-preserving restructuring tool, a software engineer can change a

program's structure to ease future modifications. However, deciding how to restructure the program requires a global understanding of the program's structure, which cannot be derived easily by directly inspecting the source code. We describe a manipulable program visualization—the star diagram—that supports the restructuring task of encapsulating a global data structure. The star diag ...

Keywords: meaning-preserving restructuring, semi-automated restructuring, software visualization, star diagram, tool-supported restructuring

13 The equivalence of models of tasking

 Daniel M. Berry
January 1972 **ACM SIGACT News ; ACM SIGPLAN Notices , Proceedings of ACM conference on Proving assertions about programs**, Volume , 7 Issue 14 , 1

Publisher: ACM Press

Full text available:  pdf(2.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A technique for proving the equivalence of implementations of multi-tasking programming languages is developed and applied to proving the equivalence of the contour model and a multi-tasking version of the copy rule.

14 High dynamic range imaging

 Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  pdf(20.22 MB) Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

15 An embedded domain-specific language for type-safe server-side web scripting

 Peter Thiemann
February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available:  pdf(336.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

Keywords: Interactive Web services, Web programming

16 Emerging applications: Obfuscation of executable code to improve resistance to static disassembly

 Cullen Linn, Saumya Debray
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: [pdf\(155.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A great deal of software is distributed in the form of executable code. The ability to reverse engineer such executables can create opportunities for theft of intellectual property via software piracy, as well as security breaches by allowing attackers to discover vulnerabilities in an application. The process of reverse engineering an executable program typically begins with disassembly, which translates machine code to assembly code. This is then followed by various decompilation steps that ai ...

Keywords: code obfuscation, disassembly

17 [Document Formatting Systems: Survey, Concepts, and Issues](#)

 Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: [pdf\(5.36 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 [Pen computing: a technology overview and a vision](#)

 André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: [pdf\(5.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

19 [Some ALGOL 68 compilers](#)

R. B. Hunter, R. Kingslake, A. D. McGettrick

July 1977 **ALGOL Bulletin**, Issue 41

Publisher: Computer History Museum

Full text available: [pdf\(2.91 MB\)](#)

Additional Information: [full citation](#), [index terms](#)



20 [Status report of the graphic standards planning committee of ACM/SIGGRAPH:](#)

 [State-of-the-art of graphic software packages](#)

Computer Graphics staff

September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Publisher: ACM Press

Full text available: [pdf\(9.03 MB\)](#)

Additional Information: [full citation](#), [references](#)



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